

FastTrak Schedule Report

Overview

Store Name: My Store
Depot Name: My Depot
Delivery Date: 08/05/2024
Vehicles: 5
Packages: 273
Standard Priority: 263
Express Priority: 10

Schedule Profile

Auto-Minimise (Y/N): N
Optimisation Profile: Eco
Time Window: 8 hours
Estimated Time Per Delivery: 3 minutes

Vehicles

#	Vehicle	Packages	Load Utilisation (kg)	Volume (m³)	Distance (mi)	Time (hrs)
1	VE01ABC	60	953/1000 (95%)	15.0/15.0 (100%)	73.5	6.66
2	VE02ABC	53	877/1000 (88%)	15.0/15.0 (100%)	59.2	5.61
3	VE03ABC	55	859/1000 (86%)	15.0/15.0 (100%)	65.1	6.00
4	VE04ABC	55	856/1000 (86%)	15.0/15.0 (100%)	72.0	6.34
5	VE05ABC	50	676/1000 (68%)	15.0/15.0 (100%)	48.0	4.91

Performance

Total	Average Per Vehicle	Average Per Package
Packages: 273	Packages: 54.60	Packages: n/a
Driving Time: 29.52 hours	Driving Time: 5.90 hours	Driving Time: 0.11 hours
Distance: 317.92 miles	Distance: 63.58 miles	Distance: 1.16 miles
Weight: 4221.00 kg	Weight: 844.20 kg	Weight: 15.46 kg
Volume: 74.89 m³	Volume: 14.98 m³	Volume: 0.27 m³

Efficiency Metrics

Higher efficiency scores indicate better performance. A utilisation score of 100 indicates that the vehicle is being used to its full capacity.

Time Efficiency (TE) = Number of Packages / Time (minutes) * 100
Distance Efficiency (DE) = Number of Packages / Distance (miles) * 100
Weight Utilisation (WU) = Total Weight (kg) / Load Capacity (kg) * 100
Volume Utilisation (VU) = Total Volume (m³) / Volume Capacity (m³) * 100

#	Vehicle	TE	DE	WU	VU
1	VE01ABC	15.01	81.59	95.30	99.98
2	VE02ABC	15.74	89.48	87.70	99.73
3	VE03ABC	15.28	84.52	85.90	99.95
4	VE04ABC	14.46	76.36	85.60	99.81
5	VE05ABC	16.97	104.06	67.60	99.79
Average		15.41	85.87	84.42	99.85

Algorithm Information

The algorithm configuration has been selected as:

Initialisation: KMeans

Optimisation: None

Network State

Vehicles available: 5

Vehicles used: 5

Packages pending: 681

Packages scheduled: 273

Total Time Window: 40 hours

Solution Statistics

Initialisation	Optimisation	Packages	Time (hours)	Distance (miles)	TE	DE	WU	VU
KMeans	None	273	29.52	317.92	15.41	85.87	84.42	99.85